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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|----------------------------|--------------------|----------------------|-------------------------|-------------------------|--|
| 10/005,889 | 11/07/2001 | Robert D. Black | 9099-4 | 9099-4 7939 EXAMINER | |
| 20792 75 | 90 04/19/2004 | | EXAM | | |
| MYERS BIGE PO BOX 37428 | EL SIBLEY & SAJOVE | EC | COUNTS, GARY W | | |
| RALEIGH, NO | | | ART UNIT PAPER NUMBER | | |
| | | • | 1641 | | |
| | | | DATE MAILED: 04/19/2004 | j z | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Examiner | | Applicant(s) | Application No. | | | | |
|---|---|--|---|--|--|--|--|
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on O1 October 2002. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Is/are allowed. 6) Is/are rejected. | BLACK, ROBERT D. | | 10/005,889 | Office Action Summan | | | |
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| 6) Claim(s) is/are rejected. | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | Claim(s) is/are allowed. | 5)[| | |
| | | | | Claim(s) is/are rejected. | 6)[| | |
| <u> </u> | | | | | /= | | |
| 8) Claim(s) <u>1-22</u> are subject to restriction and/or election requirement. | | | ection requirement. | Claim(s) <u>1-22</u> are subject to restriction and/or | 8)⊠ | | |
| Application Papers | | | | ation Papers | Applica | | |
| 9) The specification is objected to by the Examiner. | | | | The specification is objected to by the Examine | 9)[| | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | ∍ 37 CFR 1.85(a). | rawing(s) be held in abeyance. See | Applicant may not request that any objection to the | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) \square The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | Action or form PTO-152. | miner. Note the attached Office | The oath or declaration is objected to by the E | 11)[| | |
| Priority under 35 U.S.C. § 119 | | | | under 35 U.S.C. § 119 | Priority | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | 12)[| | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | on No | have been received in Application | 2. Certified copies of the priority document | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | ed in this National Stage | y documents have been receive | 3. Copies of the certified copies of the prior | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | d. | f the certified copies not received | See the attached detailed Office action for a list | * | | |
| AMarkov aveta) | | | | | A44 | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | (DTO 442) | A) Interview Comme | | _ | | |
| 1) | | | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other: | | atent Application (PTO-152) | | ormation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 3) 🔲 Info | | |

Application/Control Number: 10/005,889

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-7, drawn to a method for detecting biomolecules in vivo, classified in class 435, subclass 7.2.
 - II. Claims 8-17, drawn to a circuit for detecting biomolecules in vivo, classified in class 422, subclass 82.07.
 - III. Claims 18-22, drawn to a composition of matter, classified in class 424, subclass 9.322.
- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In the instant case, the apparatus as claimed can be used to practice another and materially different process such as a process for light scattering assays.
- 3. Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different process such as drug delivery.

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4. Inventions II and III are independent and distinct inventions. Invention II is a circuit for detecting biomolecules and involves an optical radiation source, an optical radiation detector and a processor circuit and Invention III does not require these limitations. Invention III is a composition comprising a material that encapsulated a labeled binding molecule and Invention II does not require this limitation.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for one group is not required for other restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary W. Counts whose telephone number is (571) 2720817. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary Counts Examiner

Art Unit 1641

March 22, 2004

BAO-THUY L. NGUYEN PRIMARY EXAMINER